

Title (en)  
Radio frequency amplifier and television tuner

Title (de)  
HF-Verstärker und Fernsehtuner

Title (fr)  
Amplificateur HF et circuit d'accord de télévision

Publication  
**EP 1292021 A3 20040616 (EN)**

Application  
**EP 02102214 A 20020823**

Priority  
GB 0121216 A 20010901

Abstract (en)  
[origin: EP1292021A2] A radio frequency amplifier comprises a long tail pair of transistors 1, 2 provided with a tail current source 8, 9. The bases of the transistors 1 and 2 are driven by emitter followers comprising transistors 20 and 21 provided with collector load resistors 24 and 25. Feedback capacitors 26 and 27 ensure stability and feedback resistors 28, 29 bias the amplifier without degrading noise performance. The amplifier may be driven unbalanced while retaining good second harmonic distortion performance. <IMAGE>

IPC 1-7  
**H03F 3/45; H03F 1/32**

IPC 8 full level  
**H04N 5/44** (2006.01); **H03F 1/32** (2006.01); **H03F 3/19** (2006.01); **H03F 3/45** (2006.01); **H03G 3/10** (2006.01)

CPC (source: EP KR US)  
**H03F 3/45089** (2013.01 - EP US); **H04N 5/14** (2013.01 - KR); **H04N 5/50** (2013.01 - KR); **H03F 2203/45392** (2013.01 - EP US);  
**H03F 2203/45496** (2013.01 - EP US); **H03F 2203/45612** (2013.01 - EP US)

Citation (search report)  
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• [Y] EP 1128546 A1 20010829 - THOMSON BRANDT GMBH [DE]  
• [XY] GB 1082592 A 19670906 - TEXAS INSTRUMENTS LTD  
• [XY] GAL'PERIN M V: "STABILISATION OF TRANSISTORISED AMPLIFIERS WITH INDIRECT CIRCUIT CONNECTIONS", SOVIET INSTRUMENTATION AND CONTROL JOURNAL, OXFORD, GB, vol. 254, no. 5, May 1969 (1969-05-01), pages 23 - 27, XP001130675, ISSN: 0144-2139  
• [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07 31 July 1997 (1997-07-31)

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DOCDB simple family (publication)  
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DOCDB simple family (application)  
**EP 02102214 A 20020823**; GB 0121216 A 20010901; JP 2002255050 A 20020830; KR 20020052271 A 20020831; US 22579002 A 20020822